

Figure 1

SEQ ID NO:1	CAACCCAGGAGGACTGGGTGAACAAACCCCGGAAGTGA	TCCATGTAAGCC	CTCAGAACCGTCTCGGAA	(→)
AF196835	.....T.....	.....	.....	.....
AF260968	.....	.....	.....	.....
AF260969	.....	.....	.....	.....
AF481864	.....	.....	.....	.....
M12294	.....C.....T.....G.....	.....	.....	.....G.C.T..G.C.....
AF206518	.....	.....	.....	.....
AF317203	.....	.....	.....	.....
AF202541	.....	.....	.....	.....
AF404757	.....T.....	.....	.....	.....
AF404753	.....	.....	.....	.....
AF404754	.....	.....	.....	.....
AF404755	.....	.....	.....	.....
AF404756	.....	.....	.....	.....
AF017254	.....T.....	.....	.....	.....
L48977	.....C.....T.....G.....	.....	.....	.....G.C.T..G.C.....
AF196536	.....	.....	.....	.....
AF196537	.....T..G..C.....	.....	.....	.....T.....G.C.....
AF196538	.....T..G..C.....	.....	.....	.....GT.C.....
AF196540	.....T..G..C.....	.....	.....	.....GT.C.....
AF196541	.....	.....	.....	.....
AF196542	.....	.....	.....	.....
AF196543	.....T.C.....G.....	.....C.....	.....	.....A.....G...T.G.C...G.
AF297840	.....T.....	.....	.....	.....C.....A.....G...G...G.
AF458343	.....	.....	.....	.....C.....G.....
AF458344	.....T.....	.....	.....	.....
AF458347	.....T.....	.....	.....	.....
AF458348	.....	.....	.....	.....
AF458350	.....	.....	.....	.....
AF458352	.....T..G..C.....	.....	.....	.....GT.Y.....
AF458353	.....T..G..C.....	.....	.....	.....GT.C.....
AF458355	.....T.....	.....	.....	.....
AF458358	.....T.C.....G.....	.....	.....	.....A.....G...T.G.C...G.
AF458360	.....	.....	.....	.....
AF458361	.....	.....	.....	.....
AF208017	.....C.....T.....G.....	.....	.....	.....G.C.T..G.C.....
AF196539	.....C.....T.....G.....	.....	.....	.....G.C.T..G.C.....
AF196535	.....C.....G.....	.....	.....	.....G.C.T..G.C...G.

Figure 1 - cont.

AF458359	.....	C.....	T.....	G.....	.....	C.....	.....	.....	.....	G.C.T..G.C.....
AF458357	.....	C.....	.....	G.....	.....	C.....	.....	.....	.....	G.C.T..G.C.....
AF458354	.....	C.....	.....	G.....	.....	C.....	.....	.....	.....	G.C.T..G.C.....
AF458349	.....	C.....	C.T.....	G.....	.....	C.....	.....	.....	.....	G.C.T..G.C.....
AF458345	.....	C.....	T.....	G.....	.....	C.....	.....	.....	.....	G.C.T..G.C.....
AF458346	.....	C.....	T.....	G.....	.....	C.....	T.....	.....	.....	G.C.T..G.C.....
AF533540	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY187012	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY187013	.....	.....	.....	G.....	.....	.....	.....	.....	.....	.....
AY187014	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY187015	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY262283	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY277251	.....	AT.T.....	AT.G.C.....	.....	.....	C.....	.....	AT.....	T.....	C.....G.....
AY277252	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY278441	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY278442	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY268132	.....	.....	.....	.....	.....	A.....	.....	.....	.....	.....
AY268133	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AY490240	.....	.....	T.....	.....	.....	.....	.....	.....	.....	.....
Kunjin	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
D00246	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AY274504	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AY274505	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
L49311	.....	.....	T.....	G.....	.....	C.....	.....	A.....	.....	G.....T.G.C.....G.....
L48978	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
L48979	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297840	.....	.....	T.....	.....	.....	.....	.....	C.....	.....	G.....G.....
AF297841	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297842	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297843	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297844	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297845	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297846	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297847	.....	T.....	T.....	.....	.....	.....	.....	C.....	.....	T.....G.....G.....
AF297848	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297849	.....	.....	T.....	.....	.....	.....	.....	A.....	.....	G.....G.....
AF297850	.....	.....	T.....	.....	.....	.....	.....	C.....	.....	G.....G.....
AF297851	.....	.....	T.....	.....	.....	.....	.....	C.....	GTA.....	G.G.....G.AG.....GC

Figure 1 - cont.

AF297852	.....	T.....	.....	C.....	A.....	.....	G.....	G.....
AF297853	.....	T.....	.....	C.....	A.....	.....	G.....	G.....
AF297854	.....	T.....	.....	.....	A.....	.....	G.....	GA
AF297855	.....	T.....	.....	.....	A.....	.....	G.....	G.....
AF297856	.....	T.....	.....	.....	A.....	.....	G.....	G.....
AF297857	.....	T.....	.....	G.....	A.....	CCT.....	GA.....	G.....
AF297858	.....	T.....	.....	.....	A.....	.....	G.....	G.....
AF297859	.....	T.....	.....	.....	A.....	.....	G.....	G.....
AF458351	.....	T.....	.....	.....	GA.....	.....	G.....	G.....
AF458356	.....	T.....	.....	C.....	A.....	.....	G.....	G.....
L24512	.....	T.....	.....	.....	A.....	.....	G.....	G.....
JEV	.....	T.....	.....	.....	.....	.....	G.....	G.....
AB051292	..GTT.....	T.....	T.T.AC.CG.AGGTGG.A.....	.....	C.....	T.....	TG.GCACC.G.G.G.....	G.....
AF014160	..GT.....	T.....	T.T.AC.TA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF014161	.....	T.....	T.T.AC.TA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF045551	..GTT.....	T.....	T.T.AC.CG.AGGTGG.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF069076	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF075723	..GT.....	T.....	T.T.AC.CA.GAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF080251	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	G.....	T.....	TG.TCAC.G.G.G.....	G.....
AF098735	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF098736	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF098737	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF217620	..GTT.....	T.....	T.T.AC.CA.AGGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
AF221499	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
AF221500	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
AF254452	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF254453	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
AF315119	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
AF416457	..GT.....	T.....	T.T.AC.CAA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
AF486638	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	C.....	T.....	TG.TCAC.G.G.G.....	G.....
U14163	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
U15763	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
L48961	..GT.....	T.....	T.T.AC.CG.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
U47032	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
M18370	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
M55506	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
D90195	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....
D90194	..GT.....	T.....	T.T.AC.CA.AAGTGA.A.....	.....	T.....	T.....	TG.TCAC.G.G.G.....	G.....

Figure 1 - cont.

AF311748	GT.....T.....T.T.AC.CA.AAGTGA.A.....T.....TG.TCAC.G.G.GG...
AF092550	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF092552	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF092553	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF139531	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF148900	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF148901	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF148902	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF218068	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF289816	GT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF318291	GT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L48967	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L48968	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AY184212	GT.....C.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AY251616	GT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AY278556	GTT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AY316157	GTT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54067	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54068	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54069	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54070	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54071	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54072	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54122	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
L54123	GTT.....T.....T.T.AC.CA.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF306514	GTT.....T.....T.T.AC.CG.AGGTGA.A.....T.....TG.TCAC.G.G.GG...
AF306515	GT.....G.....T.T.AC.CA.AAGTGA.A.....T.....TG.TCAC.G.G.GG...
AF306516	TT.....T.....T.T.AC.CA.AAGTGA.A.....T.....TG.TCAC.G.G.GG...
AF306517	GT.....T.....T.T.AC.CA.AAGTGA.A.....T.....TG.TCAC.G.G.GG...
SLEV	
BF51750-C	TGG.....T.....T.T.....AATCT.GCCGAGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
1750-Std	TGG.....T.....T.T.....AATCT.GCCGAGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
TD6-4G-C	TGG.....T.....T.T.....AATCT.GCCGAGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
TD6-4G-20	TGG.....T.....T.T.....AATCT.GCCGAGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
Coav750	TGG.....T.....T.C.....AATCT.GCTGAGT GCA.....C....G TT...AT...G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
L695121.05	TGG.....T.....T.T.....AATCC.GCTGGGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
TNM71K-C	TGG.....T.....C.T.....AATCT.GCTGGGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C
MSI-7-C	TGG.....T.....T.T.....AATCC.GCTGGGT GCA.....C....TT...A....G...GTCC.TAGCAGGTAG.CTGGAGAGG.C

Figure 1 - cont.

Kern217 TGG.....C.....T.T.....AATCC.GCTGGGT GCA.....C.....TT...A.....G...GTCC.TGGCACGTAG.CTGGAGAGG.C  
 CoaV608 .....C.....T.T.....AATCC.GCTGGGT GCA.....C.....TT...A.....G...GTCC.TGGCACGTAG.CTGGAGAGG.C  
 TBH-28 .....T.....T.T.....AATCC.GCTGGGT GCA.....C.....TT...A.....G...GTCC.TGGCACGTAG.CCGGAGAGG.C  
 VR1265 .....T.....T.T.....AATCT.GCTGGGT GCA.....C.....TT...A.....G...GTCC.TGGCACGTAG.CTGGAG.GG.C  
 CoaV353 .....T.....T.T.....AATCTAGCTGAGT GCA.....C.....TT...A.....G...GTCC.TGGCACGTAG.CTGGAGAGG.C  
 MVEV  
 VR77 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...TGCCAACAATGGAGATG.A  
 AF161266 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...TGCCAACAATGGAGATG.A  
 M35172 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...TGCCAACAATGGAGATG.A  
 L48972 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...T.CCAACAATGGAGATG.A  
 L48973 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...TGCCAACAATGGAGATG.A  
 L48974 .....T.C.....T.ACTCTCT.CGGTTG.A.....T.C.....AG.AGT...TGCCAACAATGGAGATG.A  
 L48975 .....T.C.....A.T.ACTCTCT.CGGTTG.A.....T.C.....AG.AGT...TTCCAACAATGGAGATG.A  
 L48976 .....T.C.....T.ATTCTCC.CGGTTG.A.....T.C.....AG.AGT...TGC.AACAATGGAGATG.A  
 Koutango virus  
 L48980 .....C.....T.T.....G.A.....C.....T.....G....T...TTC.....

SEQ ID NO: 9

SEQ ID NO:9  
 AF196835 TGACT GAAGCTGTAGGTCAGG GGAAGGACTAGAGGTTAGTCGAGACCCCGTGCACAAAACACCACAAACAGCATATTGACACCTGGGA TAGACTAGGAGA  
 AF260967 .G. . . . .  
 AF260968 .G. . . . .  
 AF260969 .G. . . . .  
 AF481864 .G. . . . .  
 M12294 .G. . . . .  
 AF206518 .G. . . . .  
 AF317203 .G. . . . .  
 AF202541 .G. . . . .  
 AF404757 .G. . . . .  
 AF404753 .G. . . . .  
 AF404754 .G. . . . .  
 AF404755 .G. . . . .  
 AF404756 .G. . . . .  
 AF017254 .G. . . . .  
 AF533540 .G. . . . .  
 AY262283 .G. . . . .  
 AY278441 .G. . . . .  
 AY268132 .G. . . . .  
 AY268133 .G. . . . .  
 Kunjin .G. . . . .  
 AY274504 .G. . . . .  
 AY274505 .G. . . . .  
 L24512 .G. . . . .  
 JEV .G. . . . .  
 AB051292 CCC.C. . . . .G.AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF014160 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF014161 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF045551 CCC.C. . . . .AGG.T.T. . . . .A. . . . .CAA . . . . .TTTG.T. . . . .A. . . . .G. . . . .  
 AF069076 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF075723 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF080251 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF098735 CTC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF098736 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF098737 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF217620 TC.C. . . . .AGG.A.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF221499 CTC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF221500 CTC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .  
 AF254452 CCC.C. . . . .AGG.T. . . . .A. . . . .CAT . . . . .TTG.T. . . . .A. . . . .G. . . . .

Figure 2 - cont.

AF254453	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF315119	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF416457	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF486638	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A..T...G.....
U14163	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
U15763	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
L48961	CTC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
U47032	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
M18370	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
M55506	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
L78128	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D90195	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D90194	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF311748	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AY184212	CCCT..C.....	AAG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AY316157	CCC..C.....	AGG..T.....	A.....	CAA	TTTG..T.....	A.....G.....
AF306514	CCC..C.....	AGG..T.....	A.....	CAA	TTTG..T.....	A.....G.....
AF306515	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF306516	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
AF306517	CCC..C.....	AGG..T.....	A.....	CAT	TTG..T.....	A.....G.....
D00037	CCT..T.....	T..T..AGGT..TT.....	T..T.....	CT	TTG..T.....	A.....G.....
M14933	CCT..T.....	T..T..AGGT..TT.....	T..T.....	CT	TTG..T.....	A.....G.....
SLEV						
BFS1750-C	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
1750-Std	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
TD6-4G-C	CCG..C.....	AGAT..G.....	A.....	T....G TT...G	A.....	A.....
TD6-4G-20	CCG..C.....	AGAT..G.....	A.....	T....G TT...G	A.....	A.....
CoaV750	CCG..C.....	AGAT..G.....	A.....	T....G TT...G	A.....	A.....
L695121.05	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
TNM771K-C	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
MSI-7-C	CCG..CA.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
Kern217	CCG..CA.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
CoaV608	CCG..CA.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
TBH-28	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
VR1265	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
CoaV353	CCG..C.....	AGAC..G.....	A.....	T....G TT...G	A.....	A.....
MVEV						
VR77	CG..C.....	A..G..G..T.....	A.....	ACT..T....G .AT...	C.....	AA.....
AF161266	CG..C.....	A..G..G..T.....	A.....	ACT..T....G .AT...	C.....	AA.....
M35172	CG..C.....	A..G..G..T.....	A.....	ACT..T....G .AT...	C.....	AA.....



Figure 3\* - cont.

U14163	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
U15763	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
L48961	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CTC..C.....AGG..T.....A.....CATTGC.TCA.
U47032	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
M18370	GA..T.T.....T..	AAA	C..CA	AT	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
M55506	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
L78128	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
D90195	GA..T.T.....T..	AAA	C..CA	AT	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
D90194	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AF311748	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AY184212	GA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AX316157	TA..T.T.....T..	AAA	C..CA	A.	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AF306514	TTA..T.T.....T..	AAA	C..CA	TT	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AF306515	GA..T.T.....T..	AAA	C..AA	TT	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AF306516	GA..T.T.....T..	AAA	C..AA	AA	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
AF306517	GA..T.T.....T..	AAA	C..AA	AA	TG.....AG.CCC..C.....AGG..T.....A.....CATTGC.TCA.
St. Louis encephalitis virus					
BFS1750	T.....T.....T..	CA	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
1750-Std	T.....T.....T..	CA	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
TD6-4G	T.....T.....T..	CA	CTTG	--	A.....AA.CCG..C.....AGAT..G.....A.....T.....GTT..CGC
CoaV750	T.....T.....T..	CA	CTTG	--	A.....AA.CCG..C.....AGAT..G.....A.....T.....GTT..CGC
L695121.05	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
TNM771K	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
MS1-7	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
Kern217	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
CoaV608	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
TBH-28	T.....T.....T..	A	TTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
VR1265	T.....T.....T..	A	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
CoaV353	T.....T.....T..	CA	CTTG	--	A.....AA.CCG..C.....AGAC..G.....A.....T.....GTT..CGC
Murray Valley encephalitis virus					
VR77	CC.....T.....T...	AAG	...	A	G T.....AG..CG.C.....A.G.G..T..C.....A.....ACT.T.....GC
AF161266	CC.....T.....T...	AAG	...	A	G T.....AG..CG.C.....A.G.G..T..C.....A.....ACT.T.....GC
M35172	CC.....T.....T...	AAG	...	A	G T.....AG..CG.C.....A.G.G..T..C.....A.....ACT.T.....GC
Denque virus type 1					
U88537	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CCCTG.TG.T.....A.....CC..ACA.C...
U88536	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CCCTG.TG.T.....A.....CC..ACA.C...
U88535	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CCCTG.TG.T.....A.....CC..ACA.C...
M87512	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.GG.G.....TCCTG.TG.T.....A.....CG..ATA.C.T.
AY206457	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ACA.C...
AY145123	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.....A.....CTC.T.T.....A.....CC..ACA.C...
AY145122	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CTC.T.T.....A.....CC..ACA.C...
AY145121	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CTC.T.T.....A.....CC..ACA.C...
AF514889	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ACA.C...
AF514885	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ATA.C...
AF514883	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ATA.C...
AF514878	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ACA.C...
AF514876	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ATA.C...
AF513110	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.GG.G.....CC.TG.TG.T.....A.....CC..ACA.C...
AF350498	AT...GT.GCA.....T..	T.CCAAGAC	AC..CGCAGCA		GCGG.....A.ACC.GG.G.....CCCTG.TG.T.....A.....CC..ATA.C.T.
AF311958	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.TG.G.....CC.TG.TG.T.....A.....CC..TCA.C...
AF311957	AT...GT.GCA.....T..	T.CCAAGAC	AT..CGCAGCA		GCGG.....A.ACC.TG.G.....CC.TG.TG.T.....A.....CC..ACA.C...

AF311956	AT..GT.GCA....T.....T.....T.CCTAGAC
AF310148	AT..GT.GCA....T.....T.CCAAGAC
AF310147	AT..GT.GCA....T.....T.CCAAAC
AF310146	AT..GT.GCA....T.....T.CCTAGAC
AF309641	AT..GT.GCA....T.....T.CCGAAC
AF298808	AT..GT.GCA....T.....T.CCAAAC
AF298807	AT..GT.GCA....T.....T.CCAAAC
AF226687	AT..GT.GCA....T.....T.CCAAGAC
AF226686	AT..GT.GCA....T.....T.CCAAGAC
AF226685	AT..GT.GCA....T.....T.CCTAGAC
AF180818	AT..GT.GCA....T.....T.CCAAGAC
AF180817	AT..GT.GCA....T.....T.CCAAGAC
AB074761	AT...GTTGCA....T.....T.CCAAGAC
AB074760	AT..GT.GCA....T.....T.CCAAAC
VR344-3	AT..GT.GCA....AT.....T.CCAAGAC
<u>Dengue virus type 2</u>	
AF022434	AT..CGT.GT....C.....T.CCTT AC
AF022435	AT..CGT.GT....C.....T.CCTC AC
AF022436	AT..CGT.GT....C.....T.CCTC AC
AF022437	AT..CGT.GT....C.....T.CCTT AC
AF022438	AT..CGT.GT....C.....T.CCTT AC
AF022439	AT..CGT.GT....C.....T.CCTT AC
AF022440	AT..CGT.GT....C.....T.CCTC AC
AF022441	AT..CGT.GT....C.....T.CCTC AC
AF038402	AT..CGT.GT....C.....T.CCTT AC
AF038403	AT..CGT.GT....C.....T.CCTT AC
AF100145	AT..CGT.GT....C.....T.CCTT AC
AF100146	AT..CGT.GT....C.....T.CCTT AC
AF100147	AT..CGT.GT....C.....T.CCTT AC
AF100148	AT..TGT.GT....C.....T.CCTT .C
AF100149	AT..CGT.GT....C.....T.CCTT AC
AF100150	AT..CGT.GT....C.....T.CCTT AC
AF100151	AT..CGT.GT....C.....T.CCTT AC
AF100458	AT..CGT.GT....C.....T.CCTT AC
AF100459	AT..CGT.GT....C.....T.CCTT AC
AF100460	AT..CGT.GT....C.....T.CCTT AC
AF100461	AT..CGT.GT....C.....T.CCTT AC
AF100462	AT..CGT.GT....C.....T.CCTT AC
AF100463	AT..CGT.GT....C.....T.CCTT AC
AF100465	AT..CGT.GT....C.....T.CCTT AC
AF100466	AT..CGT.GT....C.....T.CCTT AC
AF100467	AT..CGT.GT....C.....T.CCTT AC
AF100468	AT..CGT.GT....C.....T.CCTT AC
AF100469	AT..CGT.GT....C.....T.CCTT :C
AF119661	AT..CGT.GG....C.....T.CCTT AC
AF116967	AT..CGT.GT....C.....T.CCTC AC
AF1169678	AT..CGT.GT....C.....T.CCTC AC
AF1169688	AT..CGT.GT....C.....T.CCTC AC
AF1169679	AT..CGT.GT....C.....T.CCTT AC
AF1169680	AT..CGT.GT....C.....T.CCTC AC

[illegible]

Inventor: Young, Karen

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**Figure 3\* - cont.**

AF169681	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF169682	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF169683	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF169684	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF169685	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF169686	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF204177	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGGC..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
AF204178	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
AF208496	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
AF276619	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
AF309950	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF309951	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF305592	AT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AATGGG....	AGG..TG.T.....	CCACACT	C.....	CCCAA.A.C.A.
AF309953	GT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AAATGGG....	AGG..TG.T.....	CCACACT	.A.....	CCCGA.A.C.A.
AF309954	AT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AAATGGG....	AGG..TG.T.....	CCACACT	.A.....	CCCGA.A.C.A.
AF309955	AT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AATGGG....	AGG..TG.T.....	CCACACT	.A.....	CCCGA.A.C.A.
AF309956	AT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AATGGG....	AGG..TG.T.....	CCACACT	.A.....	CCCGA.A.C.A.
AF309957	AT..TGT.GT.....C.....	T.CCTT.AA	G..TCGCAGCAA.AATGGG....	AGG..TG.T.....	CCACACT	.A.....	CCCGA.A.C.A.
AF309958	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF309959	AT..TGT.GT.....C.....	T.CCTT.AA	A..TCGCAGCAACAATGGG....	AGG..TG.T.....	CCACATT	.A.....	CCCGA.A.T.A.
AF309960	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF309961	AT..TGT.GT.....C.....	T.CCTT.AA	GG.TCGCAGCAA.AATGGG....	AGG..TGG.T.....	CCACACT	.A.....	CCCA.A.T.AT
AF309962	AT..CGT.GT.....C.....	T.CCTT.AA	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF309963	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF309964	AT..CGT.GT.....C.....	T.CCTT.AC	AG.TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
AF309965	AT..CGT.GT.....C.....	T.CCTT.C	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF359579	AT..CGT.GT.....C.....	T.CCTT.GC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.T.A.
AF489932	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.C.A.
AJ487271	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.C.A.
AY037116	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCGA.A.C.A.
M19197	AT..CGT.GT.....C.....	T.CCTT.AC	AG.TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
M20558	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
M29095	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
M84727	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTCACT	.A.....	CCCAA.A.C.A.
M84728	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
U61245	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
U61246	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.GA.
U61247	AT..CGT.GT.....C.....	T.CCTC.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
U61248	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
U87411	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
U87412	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
VR345-2	AT..CGT.GT.....C.....	T.CCTT.AC	A..TCGCAGCAACAATGGG....	AGG..GA.T.....	TCTC.CT.	.A.....	CCCGA.A.C.A.
Dengue virus type 3							
AF310149	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....
M93130	AC..TGT.GCA.....T.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.TA.A.A.C.....
AF317645	AC..TGT.GCA.....T.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.TA.A.A.C.....
AY099336	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....
AY099337	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....
AY099343	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....
AY099344	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....
AY099345	AC..TGT.GCA.....C.....	T.CCATGAC	AC..CGCAGCA	GGCG.....	GAG.ACTGAGG.....	CC..CTTGCA	.A.A.T.....

[illegible]

Inventor: Young, Karen

Replacement Sheet 13/17

Figure 3\* - cont.

[illegible]

\*Two potential binding sites for SEQ ID NOS.: 28 & 70 can be found in this region. These are denoted by single underline for SEQ ID NO.: 28, and shading for SEQ ID NO.: 70.

KY1129

5'-GTAAGCC CTCAGAACCGTCTCGGAA-3'

WNV

AF317203	.....
AF196835	.....
AF260967	.....
AF260968	.....
AF260969	.....
AF481864	.....
M12294	.....
AF206518	.....
AF317203	.....
AF202541	.....
AF404757	.....
AF404753	.....
AF404754	.....
AF404755	.....
AF404756	.....
AF017254	.....
L48977	.....
AF196536	.....
AF196537	.....
AF196538	.....
AF196540	.....
AF196541	.....
AF196542	.....
AF196543	.....
AF458343	.....C.....
AF458344	.....C.....
AF458347	.....
AF458348	.....
AF458350	.....
AF458352	.....C.....
AF458353	.....
AF458355	.....
AF458358	.....
AF458360	.....
AF458361	.....
AF208017	.....
AF196539	.....
AF196535	.....
AF458359	.....
AF458357	.....
AF458354	.....
AF458349	.....
AF458345	.....
AF458346	.....T.....T.....
AF533540	.....

JEV

AB051292	.A.....
AF014160	.A.....
AF014161	.A.....
AF045551	.A.....
AF069076	.A.....
AF075723	.A.....
AF080251	.A.....G.....
AF098735	.A.....
AF098736	.A.....
AF098737	.A.....
AF217620	.A.....
AF221499	.A.....
AF221500	.A.....
AF254452	.A.....
AF254453	.A.....
AF315119	.A.....T.....
AF416457	.A.....
AF486638	.A.....
U14163	.A.....
U15763	.A.....

Fig. 4A

KY1129

5'-GTAAGCC CTCAGAACCGTCTCGGAA-3'

JEV cont.

L48961	.A.....
U47032	.A.....
M18370	.A.....
M55506	.A.....
L78128	.A.....
D90195	.A.....
D90194	.A.....
AF311748	.A.....
AF092550	.A.....
AF092552	.A.....
AF092553	.A.....
AF139531	.A.....
AF148900	.A.....
AF148902	.A.....
AF218068	.A.....
AF289816	.A.....
AF318291	.A.....
L48967	.A.....
L48968	.A..C..
L54067	.A.....
L54068	.A.....
L54069	.A.....
L54070	.A.....
L54072	.A.....
L54122	.A.....
L54123	.A.....
AF306514	.A.....
AF306515	.A.....T.....
AF306516	.A.....T.....
AF306517	.A.....A.....T.....

MVEV

AF161266	.A.....T.C.....
M35172	.A.....T.C.....
L48972	.A.....T.C.....
L48973	.A.....T.C.....
L48974	.A.....T.C....C.....
L48975	.A.....T.C.....
L48976	.A.....T.C.....C.....

KUNJIN

AF458351	.....G.
AF458356	.....
AF297840	.....C.....
AF297841	.....
AF298942	.....
AF297843	.....
AF297844	.....
AF297845	.....
AF297846	.....C.....
AF297847	.....C.....
AF297848	.....
AF297849	.....
AF297850	.....C.....
AF297851	.....C.....GT
AF297852	.....C.....
AF297853	.....C.....
AF297854	.....
AF297855	.....
AF297856	.....
AF297857	.....G.....
AF297858	.....
AF297859	.....
L48978	.....
L49311	.....
D00246	.....
L48979	.....
L24512	.....

KOUTANGO

L48980	.....
--------	-------

Fig. 4B

KY1130

5'-TCCTAGTCTA TCCCAGGTGTCAA-3'

WNV

AF196835	.....
AF260967	.....
AF260968	.....
AF260969	.....
AF481864	.....
M12294	C.....
AF206518	.....
AF317203	.....
AF202541	.....
AF404757	.....
AF404753	.....
AF404754	.....
AF404755	.....
AF404756	.....
AF017254	.....A.....

Kunj-in

L24512	.....
--------	-------

JEV

AB051292	.....C.....T.....
AF014160	...C.....T.....
AF014161	...C.....T.....
AF045551	...C.C.....T.....
AF069076	...C.....T.....
AF075723	...C.....T.....
AF080251	...C.....T.....
AF098735	...C.....T.....
AF098736	...C.....T.....
AF098737	...C.....TCT.....
AF217620	...C.....T.....
AF221499	...C.....T.....
AF221500	...C.....T.....
AF254452	...C.....T.....
AF254453	...C.....T.....
AF315119	...C.....T.....
AF416457	...C.....T.....
AF486638	...C...A...T.....
U14163	...C.....T.....
U15763	...C.....T.....
L48961	...C.....T.....
U47032	...C.....T.....
M18370	...C.....T.....
M55506	...C.....T.....
L78128	...C.....T.....
D90195	...C.....T.....
D90194	...C.....T.....
AF311748	...C.....T.....
AF306514	...C.C.....T.....
AF306515	...C.....T.....
AF306516	...C.....T.....
AF306517	...C.C.....T.....
D00037	...C.....T.....
M14933	...C.....T.....

MVEV

AF161266	.....TT.....
M35172	.....TT.....

Fig. 4C

Inventor: Young, Karen

Replacement Sheet 17/17

KY1131

5'-GGACTAGAGGTTAGAGGAGACCCCGCGG-3'

WNV

AF196835	.....
AF260967	.....
AF260968	.....
AF260969	.....
AF481864	.....
M12294	.....T
AF206518	.....
AF317203	.....
AF202541	.....
AF404757	.....
AF404753	.....
AF404754	.....
AF404755	.....
AF404756	.....
AF017254	.....
AF208017	.....T.....A..T

Kunjin

L24512	.....T
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JEV

AB051292	.....T..
AF014160	.....T..
AF014161	.....T..
AF045551	.....T..
AF069076	.....T..
AF075723	.....T..
AF080251	.....T..
AF098735	.....T..
AF098736	.....T..
AF098737	.....T..
AF217620	.....T..
AF221499	.....T..
AF221500	.....T..
AF254452	.....T..
AF254453	.....T..
AF315119	.....T..
AF416457	.....T..
AF486638	.....T..
U14163	.....T..
U15763	.....T..
L48961	.....T..
U47032	.....T..
M18370	.....T..
M55506	.....T..
L78128	.....T..
D90195	.....T..
D90194	.....T..
AF311748	.....T..
AF306514	.....T..
AF306515	.....T..
AF306516	.....T..
AF306517	.....T..

MVEV

AF161266	.....A.TC
M35172	.....A.TC

Fig. 4D